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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/757,332A

DATE: 04/14/2003
TIME: 14:56:11

Input Set : A:\EP.txt
Output Set: N:\CRF4\04142003\I757332A.raw

```
 1 <110> APPLICANT: Achilefu, Samuel I.
 2         Rajagopalan, Raghavan
 3         Dorshow, Richard B.
 4         Bugaj, Joseph E.
 6         Mallinckrodt Inc.
 8 <120> TITLE OF INVENTION: Hydrophilic Cyanine Dyes
10 <130> FILE REFERENCE: MRD-66
12 <140> CURRENT APPLICATION NUMBER: US 09/757,332A
13 <141> CURRENT FILING DATE: 2001-01-09
15 <150> PRIOR APPLICATION NUMBER: US 09/484,319
16 <151> PRIOR FILING DATE: 2000-01-18
18 <160> NUMBER OF SEQ ID NOS: 8
20 <170> SOFTWARE: Patent-In Version 3.1
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 8
24 <212> TYPE: PRT
25 <213> ORGANISM: Artificial Sequence
27 <220> FEATURE:
```

W--> 28 `<221> NAME/KEY: MOD RES`

```
29 <222> LOCATION: (1)...(8)
30 <223> OTHER INFORMATION: Xaa at location 1 represents D-Phe. Artificial sequence
31       is completely synthesized.
32 <223> OTHER INFORMATION: Xaa at locations 2 and 7 represents Cys with an
33       intramolecular disulfide bond between two Cys
34       amino acids. Artificial sequence is completely
35       synthesized.
36 <223> OTHER INFORMATION: Xaa at location 4 represents D-Trp. Artificial sequence
37       is completely synthesized.
```

W--> 39 `<400> 1`

W--> 40 **Xaa Xaa Tyr Xaa Lys Thr Xaa Thr**

```
41   1                5
44 <210> SEQ ID NO: 2
45 <211> LENGTH: 8
46 <212> TYPE: PRT
47 <213> ORGANISM: Artificial Sequence
49 <220> FEATURE:
```

W--> 50 `<221> NAME/KEY: MOD RES`

```
51 <222> LOCATION: (1)...(8)
52 <223> OTHER INFORMATION: Xaa at location 1 represents D-Phe. Artificial sequence
53       is completely synthesized.
54 <223> OTHER INFORMATION: Xaa at locations 2 and 7 represents Cys with an
55       intramolecular disulfide bond between two Cys
56       amino acids. Artificial sequence is completely
```

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```
        57        synthesized.
        58 <223> OTHER INFORMATION: Xaa at location 4 represents D-Trp. Artificial sequence
        59        is completely synthesized.
        60 <223> OTHER INFORMATION: Xaa at location 8 represents Thr-OH. Artificial sequence
        61        is completely synthesized.
W--> 63 <400> 2
W--> 64   Xaa Xaa Tyr Xaa Lys Thr Xaa Xaa
        65    1               5
        66 <210> SEQ ID NO: 3
        69 <211> LENGTH: 11
        70 <212> TYPE: PRT
        71 <213> ORGANISM: Unknown
        73 <220> FEATURE:
W--> 74 <221> NAME/KEY: MOD RES
        75 <222> LOCATION: (1)...(11)
        76 <223> OTHER INFORMATION: Bombesin analog
        78 <400> SEQUENCE: 3
        79   Gly Ser Gly Gln Trp Ala Val Gly His Leu Met
        80    1               5                   10
        83 <210> SEQ ID NO: 4
        84 <211> LENGTH: 11
        85 <212> TYPE: PRT
        86 <213> ORGANISM: Unknown
        88 <220> FEATURE:
W--> 89 <221> NAME/KEY: MOD RES
        90 <222> LOCATION: (1)...(11)
        91 <223> OTHER INFORMATION: Bombesin analog
        93 <400> SEQUENCE: 4
        94   Gly Asp Gly Gln Trp Ala Val Gly His Leu Met
        95    1               5                   10
        98 <210> SEQ ID NO: 5
        99 <211> LENGTH: 8
       100 <212> TYPE: PRT
       101 <213> ORGANISM: Unknown
       103 <220> FEATURE:
W--> 104 <221> NAME/KEY: MOD RES
       105 <222> LOCATION: (1)...(8)
       106 <223> OTHER INFORMATION: Cholecystokinin octapeptide analogs
       108 <400> SEQUENCE: 5
       109   Asp Tyr Met Gly Trp Met Asp Phe
       110    1               5
       113 <210> SEQ ID NO: 6
       114 <211> LENGTH: 8
       115 <212> TYPE: PRT
       116 <213> ORGANISM: Artificial Sequence
       118 <220> FEATURE:
W--> 119 <221> NAME/KEY: MOD RES
       120 <222> LOCATION: (1)...(6)
       121 <223> OTHER INFORMATION: Xaa at locations 3 and 6 represents Norleucine.
```

RAW SEQUENCE LISTING   DATE: 04/14/2003
PATENT APPLICATION: US/09/757,332A   TIME: 14:56:11

Input Set : A:\EP.txt
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```
        122          Artificial sequence is completely synthesized.
        124 <400> SEQUENCE: 6
W--> 125  Asp Tyr Xaa Gly Trp Xaa Asp Phe
        126    1                   5
        127 <210> SEQ ID NO: 7
        128 <211> LENGTH: 8
        129 <212> TYPE: PRT
        130 <213> ORGANISM: Artificial Sequence
        132 <220> FEATURE:
W--> 133 <221> NAME/KEY: MOD RES
        134 <222> LOCATION: (1)...(8)
        137 <223> OTHER INFORMATION: Xaa at location 1 represents D-Asp. Artificial sequence
        138          is completely synthesized.
        139 <223> OTHER INFORMATION: Xaa at locations 3 and 6 represents Norleucine.
        140          Artificial sequence is completely synthesized.
W--> 142 <400> 7
W--> 143  Xaa Tyr Xaa Gly Trp Xaa Asp Phe
        144    1                   5
        147 <210> SEQ ID NO: 8
        148 <211> LENGTH: 8
        149 <212> TYPE: PRT
        150 <213> ORGANISM: Artificial Sequence
        152 <220> FEATURE:
W--> 153 <221> NAME/KEY: MOD RES
        154 <222> LOCATION: (1)...(8)
        155 <223> OTHER INFORMATION: Xaa at location 1 represents D-Lys. Artificial sequence
        156          is completely synthesized.
        158 <400> SEQUENCE: 8
W--> 159  Xaa Pro Arg Arg Pro Tyr Ile Leu
        160    1                   5
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 04/14/2003
PATENT APPLICATION: US/09/757,332A   TIME: 14:56:12

Input Set : **A:\EP.txt**
Output Set: **N:\CRF4\04142003\I757332A.raw**

<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2,4,7
Seq#:2; Xaa Pos. 1,2,4,7,8
Seq#:6; Xaa Pos. 3,6
Seq#:7; Xaa Pos. 1,3,6
Seq#:8; Xaa Pos. 1

VERIFICATION SUMMARY   DATE: 04/14/2003
PATENT APPLICATION: **US/09/757,332A**   TIME: 14:56:12

Input Set : **A:\EP.txt**
Output Set: **N:\CRF4\04142003\I757332A.raw**

```
L:28 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1
L:39 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:40 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:50 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:2
L:63 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:64 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:74 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:89 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4
L:104 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5
L:119 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:133 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:142 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:153 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8
L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
```